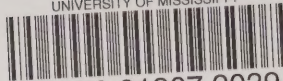


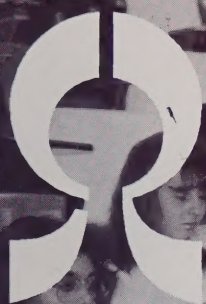


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# the Journal of College Radio

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Volume XXIV Number 3 1990-91

**FCC Grants IBS Joint Petition**

**Frequency Extension Goes to College**

**IBS Program Producers Directory**

Non-Profit Organization  
U. S. Postage  
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Permit No. 8  
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The crew from WRNV, ready for Army-Navy football. Front row, l. to r., Jim Link Delaroderie, Mike Kunn, and Robert Rock 'n' Roll Doctor Adams. Second row, Doug Mitchell, John Poldero, Laura L. A. Woman Bajor, Jeff Stutz, and Reggie King. Back row, Todd Krulak, Jeff Rotorman Ruteberg, Mike Itarura, Eric Manton, and James Deen.



## Powerhouse at U. S. Naval Academy

It's difficult to understand how a midshipman with the fast and rigorous schedule of the Academy can find time for ECA's ... that's our acronym for extra-curricular activities on campus. Despite the problems, the staff of WRNV 89.7 FM give most of their free time to broadcast the sound of the Naval Academy. The station motto is *All the way to the left ... and a little bit to the right.*

WRNV differs from many college stations because its staff has no broadcast journalism or communications majors. The Naval Academy does not offer degrees in those subjects. Midshipmen with WRNV experience train new staff members in all areas of station operations.

"They are remarkable self-starters," said Lt. Roxie Thomsen, WRNV officer representative. "I listen to them at home and in my car, and it amazes me that midshipmen, without a lot of free time can do the lively 24-hour programming that they do."

With signal coverage of the Academy campus and most of Annapolis, the staff try to stay on the cutting edge of college music. "We've got a lot of new talent this year," said WRNV Station Manager, Midshipman 1st Class Jeff Stutz. "We're unpredictable. If you're looking for one type of music at WRNV, then you're tuned to the wrong station." WRNV will play just about anything the brigade wants to hear. "Most of our music tends to be progressive, but our format is open and we play everything from industrial club to country."

In addition to their 'round-the-clock broadcasting, the WRNV staff also provides support for various brigade activities. Staff engineers help other ECA's,

such as the Naval Academy Glee Club, make recordings in the WRNV sound studio. Staff volunteers also provide music and entertainment at pep rallies and home football games using a portable sound system they call *The Beef*. Various WRNV disc jockeys have acted as play-by-play and color sports announcers for all of the 150 pound football games and the Academy Hockey Club's home and away games.

The WRNV team is also involved in local Annapolis community relations. They provide sound system support for the Annapolis Christmas Lights Parade. They also publicized the *Giving from the Heart of the Brigade*, a program sponsored by the Naval Academy Chapel to provide Thanksgiving dinner boxes to more than 500 needy local families.

Sophomore Jim Link Delaroderie, a WRNV DJ in the Sunday 10 p.m. to midnight slot, believes WRNV has a positive impact on the students. "The biggest thing we do is give them an outlet. They tune us in because we play what they want to hear."

Stutz agrees. "The midshipmen are some of the most high-energy and intense students in the country. Listening to WRNV can provide a release after a high-pressure day." The DJ's say they use their shows as an outlet for their own stress.

"When I go into the studio, I feel more in contact with the outside world. I don't feel so isolated," remarked Delaroderie.

Stutz said, "It's a great way for us to express ourselves. It's really given me a lot of self-confidence."

For many midshipmen, the end of the day is a chance to relax, but for the staff of WRNV it will be a long night of rock 'n' roll. □ JO2 Douglas R. K. Holl

WRNV RADIO



# the Journal of College Radio

Volume XXIV No. 3  
1990-91

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Editor

Richard Beatty  
Designer

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**Cover Photo:** WGAO-FM at Dean Junior College in Franklin, Mass. played host for the recent IBS New England Regional Conference.

Stations from throughout the region spent a full day participating in sessions on programming, music, news, management, technical, and other topics.

The well-equipped and well-designed WGAO studio complex inspired both admiration and envy. Facilities included several fully-equipped control rooms for on-air and production use. The adjacent communications area contains several more control rooms for editing, production and instructional use.

IBS' thanks go to Vic Michaels and to WGAO for hosting this year's New England conference, which is an annual IBS tradition.

*The Journal of College Radio* was founded in 1941 by the Intercollegiate Broadcasting System, Inc. using the title *IBS Bulletin*. The name was changed in 1955 to *IBS Newsletter*. In 1964 it became *College Radio* and in 1969, *the Journal of College Radio* © 1990 IBS.

*The Journal of College Radio* is published four times per academic year by the Intercollegiate Broadcasting System, Inc. a non-profit organization of school and college radio stations.

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# Radio on Television

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If you were under the impression that television had made radio news obsolete, look again, or rather, listen again.

As the attacks on Baghdad started and continued and millions tuned to CNN and the TV networks for coverage, what they got was essentially radio. It was pure, "live" radio, with Bernard Shaw, John Holliman and others on the CNN crew painting word pictures on the phone about what was going on right outside their windows.

Most of the video we saw at the beginning of the fighting consisted of network correspondents doing "stand-ups" from someplace far removed from Baghdad where the initial attack was taking place. All they could do was stand there, squint into the camera and create their own word pictures. Once again it was, as IBS Board Member, resident media sage, and gentleman farmer Thom O'hair put it, "Radio on Television."

If you are asking the question, "What does this have to do with college radio?", then your station has a problem. If you had looked out a station window or not too far from it, you probably would have found a demonstration for peace, for war, or for something in between, taking place on campus or in the community.

What did your station put on the air the night of January 16, 1991, when war started? In the past several months, what has your station said about the Middle East on the air? Have you ignored it, choosing instead to continue concentrating on playing "just the hits" or "everything else but the hits"? Has your station stuck its collective head in the sand and pretended nothing else was as important as the right music mix?

I am reminded of the night the attacks on Iraq began, and, as a certified media freak, I was continually tuning around the radio, TV and cable dials, listening and watching how each station or channel

was covering things. I stumbled across USA Network on cable, where the pre-taped wrestlers continued to go at each other as if in a time warp, isolated from reality. The closest they got to "coverage" of the Middle East was between matches when one of the wrestlers who usually screams at his potential opponents shook his fist and screamed into the camera at Saddam Hussein instead.

Unfortunately, that's also about as close to reality as some college stations get.

Whether we admit to it or not, news is one of the areas most neglected at too many college stations. National and international news often gets superficial exposure with a quick rip-and-read from the AP or UPI wire or sometimes the punch-up of a network button. If you think that's what news coverage is all about, you are fooling yourselves and short-changing your listeners.

Somehow, we too often fail to make the connection between what's going on nationally or globally and its effect on people on our own campus and in the local community. Does your station send people out with a tape machine and note pad to cover local stories? I don't mean chasing fire trucks, but covering issue-oriented stories. Does their work get on the air? There usually are points of view that don't show up on the local commercial stations or in the newspaper.

We tend to pride ourselves on playing alternative music that doesn't get exposure elsewhere. Why not do the same for news? If a military draft is re-instituted, how will it affect the students on your campus, or those graduating in a few months? How do they feel about it? Have you talked with them on the air?

Has the economic recession had any effect on your campus? on the school? on the students? on the community? How much coverage has it received on your station?

There was a time when it may have been difficult

to make news interesting. Public affairs programming meant two or more people sitting in an empty studio and talking with or at each other. While the matter under discussion may have been important, the presentation did not capture the listeners' attention. For that reason, it was often pre-taped and aired sometime between 5 a.m. and 8 a.m. Sunday morning in the news and public affairs "ghetto". You'll still find it that way at a lot of commercial stations. Hide it out of the way so it doesn't intrude on our music – or on the seemingly miniscule attention span of our audience.

It doesn't have to be that way. Unlike commercial stations, we don't have to aim at the lowest common denominator to attract mass numbers of listeners and, therefore, large amounts of advertising revenue. We can afford to have fewer, more special listeners who remain loyal to our station because it's the only place they can find particular programming.

Because most of our station staff people are students and community volunteers, we've got the people to put on the streets and on the phones to cover the news in our local area far better than our commercial counterparts. We've also got the air time, since our programming doesn't have to be dictated by what attracts the most advertisers.

The times in which we live have made the content of news and public affairs programming more important to our listeners. At the same time, recent technology has made it easier for us to make the presentation more interesting.

Portable cassette machines can go anywhere we go. They are relatively inexpensive and the quality has improved remarkably in the last several years. They can help you bring back a real sense of a situation. Try using a broadcast-quality microphone instead of the cheaper ones that usually come with the machine. In fact, in a pinch, with the right clip-lead cable (ask your engineer), you can use the cassette machine to go "live" through a telephone. At the least, you can use the phone to feed a piece back to the station, eliminating the time it normally would take you to get back there.

The telephone itself has become *The* major news-gathering and presentation tool. There's nothing like the phone for taking the pulse of your campus and community, or getting to people who would freeze up at the sight of a microphone.

Don't wait for them to come to you. Take the initiative. Get out there with a tape machine. Get on the phone. Call campus and community leaders and those who may not be leaders, but are just ordinary people like ourselves. Ask questions and then ask more based on their response.

Use hidden resources, for example, faculty. Who? Yes, faculty. Right on campus you may have experts on political science, economics, social issues, health, and other areas in the news every day. Have you ever called any of these people and asked them to discuss these issues on the air? How about students or grad students with that major? How about local business people, educators, politicians?

Talk on the radio doesn't have to be exclusively for AM listeners over 50 years old. There are issues of vital importance to your listeners and there are people nearby who can help explain what it all means.

Sure, people can tune to CNN or the TV networks or the radio networks to get updated on the world. But, it's only local radio that can tell people what's going on just outside their own doors. Your station may be the only local station right in town, or it may be the only local alternative outlet. If you don't reflect the events and issues important to your campus and community, your station is nothing more than a free jukebox.

That may have passed for acceptable some time ago, but today, it's just not good enough.



Jeff Tellis

# COLLEGE RADIO COALITION JOINT PROGRAM GUIDE

**WBWC** 88.3 FM

**WCSB** 89.3

**WOB** 91.5

**WRUW** 91.1 FM

**WUJC** 88.7 FM

A recent cover of the College Radio Coalition Joint Program Guide for the Cleveland area. WUJC at John Carroll University, University Heights, Ohio, considers itself lucky to be in a high concentration of cooperative college radio stations.

# FCC Relaxes Carrier Current Radiation Limits

## FCC Grants IBS Joint Petition:

### Commission Reverses Serious Threat to Stations Applies CC Rules to "Leaky Cable" Technology

**W**ith a News Release dated November 28, 1990, the FCC announced important reversals of their recently-revised Part 15 rules (Docket 87-389) which govern college carrier current AM stations. The Commission's revisions came in response to a *Joint Petition for Reconsideration* filed last year by IBS, LPB Inc., LocRad Inc., and Burden Associates.

The Part 15 rules were revised in March, 1989 and had drastically tightened up allowed signal strength, reducing it by some 88%. The restricted rules also imposed the use of campus boundaries in measuring signal strength.

The reduced signal strength and use of campus boundaries would have had their most severe impact at urban campuses. In these settings, the FM dial is often completely filled, so carrier current becomes an important alternative means of broadcasting.

In our *Joint Petition for Reconsideration*, IBS, LPB Inc., LocRad Inc., and Burden Associates contended that the newly adopted lower limits were unnecessarily restrictive and asked the FCC to reinstate the previous emission limits. Under the old rules, no pattern of interference with licensed services had been found. It took about a year and a half, but eventually, the Commission agreed with us that these relaxed standards would provide adequate

protection to other authorized communications users.

#### Leaky Cable

Although most carrier current systems use the existing electrical power lines within a building or group of buildings as their antenna system, some stations use a "leaky cable". This is a coax cable specially designed with slotted openings to "leak" the signal out rather than keeping it self-contained. This method avoids the problems of AC power line coupling.

Because leaky cable systems operate more like carrier current systems than radio transmitters, the FCC has granted our joint request that leaky cable systems operating in the AM band should be subject to the same field strength limits and other requirements as carrier current systems.

Leaky cable is more commonly found in highway information systems, including the LPB Inc. installation in use at Disney World in Florida.

#### Turning Point

The Commission's grant of our Joint Petition marks a turning point in the regulation of carrier current radio, providing growth and development opportunities for existing stations and a chance for new carrier current stations to get established.

The text of the FCC's action is reprinted in this issue of the *Journal* on page 18. It will also be dis-

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cussed at the IBS National Convention, March 1-2-3, 1991 at the New York Penta Hotel in New York City.

IBS, LPB Inc., LocRad Inc., and Burden Associates had originally filed comments on the new rules when they were first proposed in October, 1987. The Commission adopted the new rules in April, 1989, and our *Joint Petition for Reconsideration* was filed on May 14, 1989. No other group filed in support of carrier current campus stations, although a dozen individual stations filed in support of our *Joint Petition for Reconsideration*.

### Background

Campus carrier current technology was originated in the late 1930's by Dr. George Abraham and David W. Borst, the co-founders of the Intercollegiate Broadcasting System (IBS), during their undergraduate days at college. Although later surpassed by the advent of noncommercial FM stations, there are presently over 500 campus carrier current stations in operation in the U.S.

The technology has been developed and improved over the years, eliminating the hum which often caused reception problems in earlier days. Carrier current still provides a viable option where

no FM frequencies are available, where students want to establish a station quickly without the long delays in processing of an FCC station application, and where only limited coverage is needed. For existing FM stations, carrier current can provide a means for further diversification of program service and the sales and production experience and revenues made possible by selling spot commercials.

LPB Inc. is a manufacturer and marketer of carrier current and highway information systems and a complete line of studio equipment used by both campus and commercial broadcast stations. Burden Associates and LocRad Inc. market and install carrier current, highway information and other broadcast studio and transmitting systems.

The FCC reversal is the culmination of a lot of hard work and expense in the writing and submission of the *Joint Petition*, followed by a number of visits to the Commission and the Commission staff to reinforce our case. We did our homework thoroughly because there was not going to be a second chance!

Our special thanks to Richard Crompton of LPB Inc. and William Malone, Washington counsel, who did much of the work on this project. ☐

# KBVC's Image Change Campaign

by Gary McIntyre

**T**he front page banner headline screamed: "KBVC vacating the air waves after Fall break." The Buena Vista College paper, *The Tack*, cited in its article reasons such as low morale, the technical inferiority of the carrier current signal, an administration too stubborn to allow changes, and a host of other problems. Would KBVC have its plug pulled for good? What had gone wrong?

The only thing that had gone wrong was the neg-

ative article printed in the paper about the radio station; an article developed from a rumor started by KBVC student staff members. The rumor grew into a green-eyed monster. The feeding of the rumor to the print media was only a part of the grand scheme to change the image and ultimately the identification line of "KBVC - *The Rock of the Lake*" to KBVC - *The Blender*". The source of the rumor talked about taking *The Rock of the Lake* off the air, not about taking the radio station off the air permanently. The

change we wanted was to reflect the station's diversified programming; hence *The Blender*. The staff had no idea the rumor would mushroom into a front-page story.

The process of changing the image of KBVC began with a brainstorming session on a warm September night on the deck of the faculty advisor's house. Various ideas were kicked around until a student came up with the idea that the station really has a unique music mix – so why not *The Blender*? After that session, directors and assistant directors met in a closed door meeting to plan to take the station off the air three days before Fall break. (KBVC has about 16 people in management and about 30 announcers.) It was there decided to spread the rumor as a publicity stunt. To prevent leaks, the announcers were purposely not informed. Revamping the station image required changing the ID's, sweeps, promos, printed promotional material, and the music-programming guides. Anything with *The Rock of the Lake* was purged. It took only a few days for the communication building which also houses the television cable station and the newspaper to be buzzing about the possibility of KBVC leaving the air.

A student reporter for *The Tack* interviewed the faculty advisor, but learned only there was a possibility of the plug being pulled on *The Rock of the Lake*. The operations manager gave the same "short truth" and the reporter did no more digging.

When the student paper hit the stands with the news about KBVC, it created a major stir. Administrators phoned administrators, including the Dean of Communication and Arts, who had not been advised of the change before the printing of the article. The faculty advisor fought all the brush fires with full explanations and supplied a complete story for *The Tack's* next edition.

KBVC was then taken off the air. At 12:15 p.m., the faculty advisor interrupted the jock on the air and announced that it was time to sing *The Rock of the Lake*. The programming for *The Rock* ended with a live rendition of the National Anthem sung by those in the studio. This wasn't planned but worked well.

Immediately after the sign-off, the window facing the hallway was papered over with a sign that announced "KBVC is Temporarily Closed – We Are Under Image Reconstruction." A sheet of computer paper was draped across the board and a huge "Closed" sign covered the studio bulletin board. On the outside of the studio door another sign declared "Picket Line - Do Not Cross." The jocks were notified that *The Rock* had sunk and they would be notified when to report back for duty. Staff members received genuine condolences from fellow students.

During KBVC's three and a half days off the air,

copy was changed and production began on the recorded material to reflect the new *Blender* image. Posters were hung around campus telling listeners to tune in to KBVC for something new. All jocks were sent memos with an explanation of the publicity stunt, the choice of *The Blender*, and information about their reporting to the station.

*The Blender* was introduced to listeners by recording a blender with background whispers describing the adding of a touch of rock, rap, and a little bit of news. Other sound effects included crashing dishes, a radio being tuned, and the clicking of a TV channel selector switch. KBVC provides the audio background for a local cable channel. We continued to fuel the publicity cauldron.

The day following Fall break, listeners were greeted to the sound of the blender and other background noises. The cart was recorded without a cue tone, so it played for twelve hours without a break. The only complaints were from some of the college staff working in the public areas where KBVC is broadcast on the sound system. They thought the maintenance staff was drilling through the ceiling.

The stunt created a considerable amount of attention for the station and most people on campus knew about the change in format. The next day regular programming commenced with the new production work and live jock lines. The announcers were greeted by "Welcome to the Blender" signs. The new concept will be promoted with a contest to guess the number of pieces of broken records in the new station mascot, an eight pound blender. Clues will be given about the number of pieces in the blender. The blender and registration slips will be on display at various locations on campus. Though this promotion idea has been used often, it is usually effective.

Despite the negative publicity and shock first expressed by the school administration, the transition to the new image has been well-received. Both the good and bad publicity developed an awareness of the station that was missing before. If you decide to try this at your station, be sure to inform your school administration of your basic plans before making a change. The extent of the reactions can not always be calculated. Also, be prepared for discussions about media ethics and the manipulation of the press and the public. If you can survive all this, you will have generated a great deal of enthusiasm from your station staff and listeners. ☐

*Editors Note: KBVC operates using AM carrier-current, cable FM, and cable audio on a video channel.*

Gary McIntyre, Faculty Advisor, KBVC Radio  
Buena Vista College  
Storm Lake, Iowa



KBVC IMAGE CHANGE

# Frequency Extension Goes to College

By Bill Traue

Football and basketball seasons hold great promise for lively sports remote broadcasting, but how do you get that great program quality audio from the game site back to the radio station?

Leased, equalized telephone circuits (loops) are nearly a thing of the past due to high costs and long lead times required for the ordering and testing of the lines. The regional telephone companies apparently no longer want to supply these special services. The "big guys" usually use satellite audio circuits to get long-distance remotes back home for broadcast. These are also expensive and involve cumbersome scheduling and the cost of satellite uplink and downlink equipment and services.

The frequency response in a regular dial-up telephone line ranges from about 300 Hz to 3 kHz and is adequate for voice communications. Putting a phone call on the air from a standard telephone line is often done for quick comments or on-site news reports. The low frequencies in the announcer's voice are lost, the signal tends to sound thin, and it becomes irritating to many listeners after a short time.

More and more sports remotes are being done over conventional phone lines with the use of frequency extenders. These extenders, available from several manufacturers, provide a better sound than is available when using only standard telephone equipment. A single-line telephone frequency extender can increase low frequency response from 300 Hz down to 50 Hz. An announcer's voice will sound more pleasing and "real". The limit on the high frequencies is set by the telephone network and is essentially unchanged with a single-line extender. Because the lows are extended and the highs are not, some listeners consider this sound to be "muddy."

To alleviate this problem, two-line frequency extenders were developed several years ago. The use of a second phone line allows the high frequencies

to be extended as well as the low frequencies. A two-line extender produces a single, broadcast quality program circuit with frequency response from 50 Hz all the way up to 5 kHz. These extenders are used at many pro sporting events to get the the game action back to the station or satellite uplink.

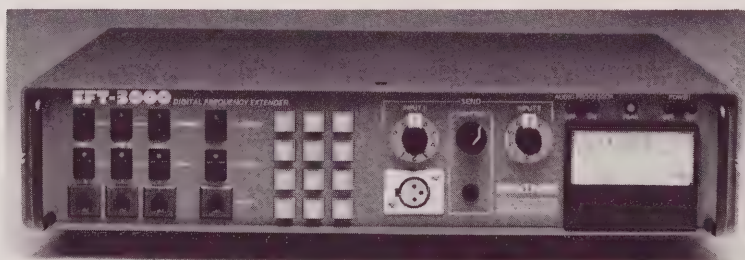
The desire for even higher fidelity in remote broadcasts has sparked the development of three-line frequency extenders. The Gentner EFT-3000 is only one example. Three ordinary voice-grade phone lines are used simultaneously to provide a circuit with a frequency response of 50 Hz to 7.5 kHz. You can hear the squeak of basketball shoes on the court with this fidelity.

This frequency extension technology can prove even more useful outside the field of sports. If your station news department delivers broadcast-quality sound bites from a school function, anywhere in the world, these bites have a better chance of being picked up and aired by other broadcasters than an unextended remote. Printed press releases and unextended remotes are frequently ignored, but extended remote actualities sound "real".

A second advantage in using the public telephone network is your control. The operator of the equipment is in control of the remote. If a line is faulty or is disconnected, the problem is solved by simply redialing. Try to beat that with a leased loop or a satellite circuit when they mysteriously go dead just before a broadcast.


The use of the latest frequency extension technology provides the ability to quickly establish a program-quality audio circuit from dial phones anywhere on Earth without the expense of leased telephone loops or satellite time. □

Bill Traue, Customer Support Engineer  
 Gentner Electronics Corporation  
 1825 Research Way, Salt Lake City, UT 84119  
 801 975-7200



**The Gentner EFT-3000  
 Digital Frequency  
 Extender is one of  
 several products for  
 improving telephone  
 transmission quality.**

# PROGRAW PROGRESS



Seems like a great fit. Our stations need programs. The independent producers have programs. What is preventing them from getting together?

There are some solutions available. Many programs are made available to stations at little or no cost. With some, distribution costs have been built-in to the original production grant. With others, the producers are more interested in exposure than profit.

IBS has also addressed the problem of showing stations what's out there. Last year, a research project undertaken by IBS and member station WHUS started by contacting independent radio program producers nationwide with a survey asking them to tell something about themselves and their programming. We managed to reach a large, though far from all-inclusive number of independents pro

Use these listings to learn what's available and what might be of interest. Follow-up by contacting the producer using their address and phone listed.

## How to Use the Directory

The order of information in the listings is:

In some listings, one or more of these items may be missing because the producer did not supply all of the information requested on our survey.

Our thanks to Karin Lee Norton at WHUS, the University of Connecticut, for her long hours of hard work on the survey design and the compiling of the response information in an easy-to-use form. *J. Tellis*

# Entertainment

## Children – Family

**Ethnic Story Dramas** - Drama Stories from Native American & Black history and traditions retold and acted out, with sound effects, 15 min., weekly, Gregory S. Black, Owner/Producer, 20K Sound Studio, 1074 Cal Young Rd., Eugene, OR 97401, 503-687-1941

**Kids Alive!** - Interviews, features, and music geared for children, 1 hr., weekly, Jamie T. Deming, Producer/President, Children's Radio Productions, Inc., 6193 Northern Blvd, E. Norwich, NY 11732, 516-922-7307

**Pickleberry Pie** - Children's music and situational features relevant to young lives, 30 min., weekly, P. J. Swift, Producer, Pickleberry Pie, Inc., 305 Dickens Way UCSC, Santa Cruz, CA 95064, 408-899-7018

**Rainbow Tales** - Children/Family story-hour geared to ages 5 and up. Live storytellers and musicians are featured monthly, 1 hr., weekly, Betty Lehrman, 99 Arlington St., Brighton, MA 02135, 617-254-5035

**Rhoda and Brownie** - Music, stories, drama series, easy recipes for cooking, 15 min., weekly, Brownie Macintosh, Co-Producer, Musical Enterprises, 47 Exeter St., Newmarket, NH 03857, 603-659-2361

## Classical Music

**Skip Through the Shadows: Scenes From Childhood** - Storytelling, music, etc. which captures the magic and pain of growing up, 5 min. or less, Ginna Allison, Producer, 3470 Pierson St., Oakland, CA 94619, 415-533-0975

**Basic Concepts in Music** - Music education – college course for credit. This unique overview of music seeks to empower listeners to understand and appreciate all music, 30 min., Free, Prof. Linda Clauder, Project Director, Annenberg/CPB Audio Print Collection, 821 University Avenue, Madison, WI 53715, 608-263-3970

**Moro: Classical Guitarist-Composer** - Classical guitar and spoken word, 1 hr., occasionally, Moro, Owner/Producer, Budwick's Records, P. O. Box 11, Bodega Bay, CA 94923, 707-875-3770

**Santa Fe Chamber Music Festival** - Produced from concerts recorded at the festival during the previous Summer, 1 hr., weekly, Lars Hoel, Producer, Lars Hoel Audio Productions, 310 East 94th St., #5E, New York, NY 10128-5614, 212-289-5747

**Steve Cohen** - Classical music program with information about composers and pieces, events, 1 hr., weekly, Steve Cohen, Steve Cohen Company, 8230 Manor Rd., Elkins Park, PA 19117, 215-635-5148

## Contemporary Issues

**City Weekly** - Conversations about ethnic, social, and language issues in New York City, 30 min., occasionally, Dr. Howard Sage, Producer, Sage Productions, 720 Greenwich St. 4H, New York, NY 10014, 212-989-0190

**Continental Mix of the Decade** - Sound and information montage including excerpts of interviews and speeches, 2 hrs., occasionally, Emory White, Cultural Worker, International Music Culture

Exchange, 100-28J Casals Place, Bronx, NY 10475, 718-858-2794

**Heat** - Conversations and performances for people who like to think – but haven't forgotten how to dance, Steve Rathe, Senior Producer, Murray Street Productions, 47 Murray St., New York, NY 10007, 212-619-1475

**Swampland In Heaven** - A "thinking man's" version of "Prairie Home Companion", weekly, Peter Tonks, Producer, Swampland In Heaven Productions, Inc., P. O. Box 10221, Denver, CO 80210

## Drama – Theatre – Storytelling

**A.R.T. Presents ...** - Radio dramas produced in conjunction with national scriptwriting contest, 30 min., occasionally, Eugene S. Shaw, Producer, American Radio Theatre, 1616 West Victory Blvd., STE 104, Glendale, CA 91201, 213-460-2464

**"Ahab" by Robert Campbell** - Julie Harris performs a reading of "Ahab" by Robert Campbell, 1 hr., Toni Mendell, President, Toni Mendell Productions, 57 Charles St., New York, NY 10014, 212-243-6808

**Cape Cod Mystery Theater** - Drama – mystery – suspense, Steven T. Oney, Writer/Producer, Cape Cod Radio Mystery Theater, P.O. Box 225, West Barnstable, MA 02668, 508-362-4443

**(George) Tirebiter's Radio Haze** - Well-known entertainers are featured in these humorous radio dramas, 30 min., occasionally, David Ossman, Producer, Radio Arts & Crafts, 4734 South HoneyMoon Bay Rd., Freeland, WA 98249, 206-221-2813

**Horror House** - Drama – horror classics and originals, 30 min., occasionally, Berl Boykin, Producer, Titanic Productions, P. O. Box 98386, Atlanta, GA 30359, 404-872-9276

**L.A. Theatre Works** - Dramas recorded by members of L.A. Classic Theatre Works, 30 min., Karen A. Keatens, Producer, 681 Venice Blvd., Venice, CA, 213-827-0808

**Live From the Hungry Ear Cafe** - Drama combined with music and poetry, 1 hr., occasionally, Sprigg C. Ebbert, President/Exec. Producer, Hungry Ear Productions, Inc., 1504 Woodmont Blvd., Nashville, TN 37215, 615-385-9917

**MRTW Live! (Annual)** - Radio drama productions produced from winners of national script contest; generally focus on social issues and culturally diverse work, 2 hrs., Diane Huneke, Director, Midwest Radio Theatre Workshop, 915 E. Broadway, Columbia, MO 65201, 314-874-1139

**Radio Mystery Theater** - Radio drama series, 1 hr., daily, Himan Brown, Himan Brown Radio Drama Network, 285 Central Park West, New York, NY 10024, 212-675-2211

**Ruby 3** - Drama with poignant message, 30 min., weekly, Free via satellite, Tom Lopez, President, ZBS Foundation, R.R. 1, Box 1201, Fort Edward, NY 12828, 518-695-6406

**Sci-Fi Radio** - Dramatized science-fiction stories about contemporary issues, 30 min., weekly, Kevin Singer, Independent Producer, Sci-Fi Radio Productions, 2404 Aspen St., Philadelphia, PA 19130-2504, 215-236-2729

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around the 100th anniversary of bombing of Hiroshima, 30 min., occasionally, James Yee, Executive Director, NAATA – The National Asian American Telecommunications Assoc., 346 Ninth St., 2-F, San Francisco, CA 94103, 415-863-0814

**The Mind's Eye Theater** - Radio plays based upon the classics, with music and sound effects, 30 min., Bob Lewis, President, AVC Corporation (The Mind's Eye), 4 Commercial Blvd., Novato, CA 94949, 415-883-7701

**The War of the Worlds 50th Anniversary** - Dramatization of Orson Welles' enactment of Verne's story, 1 hr., occasionally, Judith Walcutt, Executive Producer, Otherworld Media, P. O. Box 566, Freeland, WA 98249, 207-221-2813

**Tickets** - Theatre reviews, 10 min., weekly, Rick Harris, Producer, Harper Audio, 501 West 110th St., New York, NY 10025, 212-207-6903

## Folk – Blues – Traditional Music

**Back at the Chicken Shack** - Showcase for Blues-Black folk (traditional) musicians. Documents history with rare and current recordings and interviews, 1 hr., weekly, Drust Gre, Producer, A+ Radio Productions, 5451 Berkeley Rd., Santa Barbara, CA 93111, 805-967-5709

**Blues From the Red Rooster Lounge** - Focus is on the blues done in an informative and humorous way, 1 hr., weekly, Cary Wolfson, Independent producer, Red Rooster Radio Productions, 1514 North St., Boulder, CO 80304, 303-443-7245

**Minnesota Traditions** - Folk music and traditional culture of Minnesota in magazine format, 5 min. or less, series of 13, Philip Nusbaum, Folk Arts Program Associate, Minnesota State Arts Board, 432 Summit Avenue, Saint Paul, MN 55105, 612-297-1121

**The Folk Sampler** - Folk/traditional/bluegrass/blues music program with news about global issues, 1 hr., weekly, Mike Flynn, Producer, Flynn Productions, Box 827, Siloam Springs, AR 72761, 501-524-5703

## Jazz Music

**Improvisers Unlimited** - Introduction to improvisation as practiced in New York City by artists of diverse ethnic extractions, 30 min., occasionally, Free, Howard Mandel, Producer, NPR, 151 First Avenue, New York, NY 15009, 212-533-4952

**Jazz – Live From the Hyatt** - Jazz of all kinds – made for radio concerts, 2 hrs., occasionally, Free, Barbara Pratt, Executive Producer, 2923 Wold Avenue, Cincinnati, OH 45206, 513-281-7362

**Louisiana Swing** - Showcase of artists from beginning of New Orleans jazz-music. Interviews, discussions of difficulties with racism, 1 hr., series of 13 programs, Free, Brad Palmer, Scriptwriter and Narrator, Louisiana Swing, WWNO-FM, University of New Orleans, Lakefront, New Orleans, LA 70122, 504-286-7000

**Max Roach: A Profile of the Jazz Drummer** - A profile of the jazz drummer, composer, organizer, Free via satellite, Benjamin Shapiro, Freelance Producer, 611 Rathervue Place, Austin, TX 78705, 512-478-7722

PROGRAMS

**Stan Kenton Anthology** - A 13-part series that explores Stan Kenton's music from 1941-1979. Excerpts from an exclusive interview with Kenton are used as part of the narration, 30 min., weekly, Bob Foskett, 6123 Hillcrest St., Downers Grove, IL 60516, 708-852-9104

**The Miles Davis Radio Project** - Showcase of the great jazz musician and biographical illustrations about his struggles and accomplishment, 1 hr., occasionally, Free, Steve Rowland, Producer, Steve Rowland Productions, 6445 Greene St., Suite B-201, Philadelphia, PA 19119, 215-843-4388

## Literature - Poetry

**American Prose Series** - American authors reading and discussing their own works, 1 hr., Free via satellite, Kay Bonetti, Producer/Exec. Director, American Audio Prose Library, Inc., P. O. Box 842, Columbia, MO 65205, 314-443-0361

**Journal of Aural Arts** - Poetry with original music and sound effects to create an artistic whole 30 min., occasionally, Free via cassette, Larry C. Simpson, Independent producer, 3870 Biekl St., Cincinnati, OH 45248, 513-352-4506

**New Letters On the Air** - Portraits of the authors; Interviews and readings featuring Black and Native American authors, 30 min., weekly, Free, Rebekah Presson, Producer/host, (KCUR) New Letters, 5100 Rockhill, University of Missouri, Kansas City, MO 64110, 816-276-1159

**New Letters—Poem For the Day** - Poetry with authors reading their own works, 5 min. or less, daily, Rebekah Presson, Producer/host, (KCUR) New Letters, 5100 Rockhill, University of Missouri, Kansas City, MO 64110, 816-276-1159

**Poetry Is Music** - The relationship between poetry and music - text/sound. Poets read own poems, 5 min. or less, Beth Anderson, Producer, Beth Anderson, 26 Second Avenue, #5F, New York, NY 10003, 212-777-6787

**Radio Profiles of Audre Lorde: Readings, Essays, and Speeches** - Programs of Audre Lorde's works - readings of poetry, fiction, essays, and speeches, 30 min., Jennifer Abod, Producer/Host, 70 Abbottsford Rd., Brookline, MA 02146, 508-467-2841

**Simon & Schuster Audioworks** - Readings of books published by Simon and Schuster, weekly, Carol Shapiro, Producer, Simon & Schuster - Audio Division, 1230 Avenue of the Americas, New York, NY 10020, 212-698-7190

**Spoken Arts** - Spoken arts, 5 min. or less, Mary van Vorst, Producer/Host, Just Buffalo Literary Center, 111 Elmwood Avenue, Buffalo, NY 14201, 716-885-6400

**The Poet and the Poem** - Poetry: Interviews with poets and readings, discussions of their works, 1 hr., weekly, Free via satellite, Grace Cavalieri, Independent producer, President; Forest Woods Media Productions, Inc., P.O. Box 416, Hedgesville, WV 25427-0416, 304-754-8847

**Young People's Poetry Series** - Poetry written by K-12 students is mixed with music; expresses concerns of youth, 5 min. or less, Janice Tolman, Community Producer, 4431 Alamo Way, San Diego, CA 92115, 619-582-8744

## Miscellaneous

**Ask Dr. Science** - Comedy - spoof on science, 5 min. or less, daily, Steve Baker, General Manager, Duck's Breath, 1030 Masonic, Suite 2, San Francisco, CA 94117, 415-621-2725

**El Dicho del Dia (The Saying of the Day)** - A daily program of Hispanic folk wisdom, and cultural information, 5 min. or less, daily, Free, Jeff Kline, General Manager, Hispanic Radio Network, 207 Montoya St., Santa Fe, NM 87501, 505-984-0080

**Hechos y Gente (Facts and People)** - Spanish language programming news and information about current events, 5 min. or less, daily, Free, Jeff Kline, General Manager, Hispanic Radio Network, 207 Montoya St., Santa Fe, NM 87501, 505-984-0080

**Henrietta's Holiday** - Tours of unusual museums around the United States 5 min. or less, Free, Harriet Baskas, Producer, Reel Woman Productions, 6707 Twelfth Avenue, NW, Seattle, WA 98117, 206-784-3775

**Info Radio** - 90-second spots of soft news and humor, sometimes consumer information adapted from popular national magazines monthly articles, 5 min. or less, daily, Free, Joan S. Franklin, President, Cinema Sound Limited, 311 West 75th St., New York, NY 10023, 212-799-4800

**Shockwave** - Interviews with writers, collectors of science fiction; news from the field, 30 min., weekly, Jerry H. Stearns, Producer, KFAI-FM, 3421 44th Avenue, South, Minneapolis, MN 55406, 612-625-1543

## Music - Various

**Alaska Wireless** - Live concert series showcasing alternative rock bands on college radio, 1 hr., weekly, Free, Art Noel, Producer, Alaska Wireless, Box 913, Havertown, PA 19083, 215-848-2488

**Anything Goes** - A celebration of American musical theatre, past, present and future, 30 min., occasionally, Paul Lazarus, Producer, 382 Central Park West #4P, New York, NY 10025, 212-662-3147

**Audiophile Audition** - Music information about new classical and jazz releases and equipment, 1 hr., weekly, Free via satellite, John Sunier, Independent Producer, Audiophile Audition, 21 Stetson Avenue, Kentfield, CA 94904, 415-457-2741

**Big Band Stand** - Big-band music and Sweet sound, Hotel music - less on the jazzy side, 1 hr., weekly, Ted Fleischaker, Owner / Producer, Big Band Stand, P. O. Box 888, Lexington, KY 40587-0888, 606-233-0512

**Jazz by EAR** - Music review program for all types of alternative musicians, 5 min. or less, weekly, Carol E. Tuynman, Executive Producer, EAR Magazine, Inc., 131 Varick St., #905, New York, NY 10013, 212-807-7944

**Music From Everywhere** - International-global music and politics, 1 hr., weekly, Free, Jim Bean, Producer, Music From Everywhere, 12 Goodwin Drive, Newport, ME 04953-1250, 207-368-5866

**New Year Special** - Top-Forty from 1935-1955, special for New Year's Eve, with music history notes geared to entertain and reminisce with the older listener and educate the younger, Charles F. Cecil, Chuck Cecil's Swingin' Years, Inc., 5154 Del Moreno Drive,

Woodland Hills, CA 91364,  
818-999-1937

**Old Traditions – New Sounds (hosted by Judy Collins)** - Documentaries profiling ethnic musicians both traditional and contemporary, 30 min., series of 13, Free, Rebecca Miller, Producer/Writer, 509 West 110th St., #8B, New York, NY 10025, 212-222-5507

**Steve Cohen's "RadioBits"** - Short radio obituaries on musical artists to be supplied to stations while the artists are living, 5 min. or less, Steve Cohen, Steve Cohen Company, 8230 Manor Rd., Elkins Park, PA 19117, 215-635-5148

**Swingin' Years** - Top-Forty from 1935-1955 with music history notes geared to entertain and reminisce with the older listener and educate the younger, weekly, Charles F. Cecil, Chuck Cecil's Swingin' Years, Inc., 5154 Del Moreno Drive, Woodland Hills, CA 91364, 818-999-1937

**The Nature of Music** - Music and commentary by renowned people on searching for a common humanity through music, 30 min., occasionally, Karl Signell, Executive Producer, Garuda Productions, 7208 Wells Parkway, West Hyattsville, MD 20782, 301-699-9411

**The Western Wind On the Air** - Vocal and wind instrument ensemble performing repertoire of music from all periods for special national and religious holidays, 1 hr., Free, William Zukof, Executive Producer, Western Wind Vocal Ensemble, 263 West 86th St., New York, NY 10024, 212-873-2848

**Third World Music Masters** - World music and jazz artist showcases, interviews, weekly, Richard B. Isles, Executive Producer, Third World Music Masters, P. O. Box 7550, Elmhurst, NY 11373, 718-592-9799

**Totally Wired** - Showcase of contemporary music composers ranging from John Cage to Brian Eno, 30 min., series of 13, Kimberly Haas, Executive Producer, Pennsylvania Public Radio Associates, Inc., P. O. Box 224, Eagle, PA 19480, 215-458-0780

**Tunnel Hum** - Coast-to-coast jam with popular artists, 1 hr., Bonnie Barnett, Producer, KPFF-FM; KXLU-FM, 3935 Boyce Avenue, Los Angeles, CA 90039, 213-239-0300

**U.S. EAR: The New Music Review** - Contemporary music including avant-garde to WorldBeat and ethnic, 30 min., weekly, David Moss, Artistic Director, Moss/Hoffman Productions, P.O. Box 33, Marlboro, VT 05344, 802-254-2918

#### **New Age – Space – Experimental – Audio Art Music**

**An Hour for Majick** - Music segued with inspirational quotes used to discuss matters of philosophy, spiritual, ethics, 1 hr., weekly, Harry Wilkinson, Producer/President, New Age Productions, 96 Crotora Avenue, Harrison, NY 10528, 914-835-3616

**Art Radio** - Showcases audio art, ambient recordings, experimental music, audio art phone-ins, and the use of radio as an art medium, Randy Magnus,



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Producer/Director, Art Radio, 302 & 1/2 H. St., Modesto, CA 95351, 209-578-2723

**Echoes** - Soundscape of contemporary music – new age, space, experimental, 2 hrs., daily, Free via satellite, Kimberly Haas, Executive Producer, Pennsylvania Public Radio Associates, Inc., P. O. Box 224, Eagle, PA 19480, 215-458-0780

**Music From the Hearts of Space** - An hour of uninterrupted contemporary "Space" music from cultures all over the world, 1 hr., weekly, Stephen Hill, Producer, Hearts of Space, Inc., 1324 Noriega St., San Francisco, CA 94122, 415-759-1130

## **Information**

### **Children – Family**

**A Gathering of Days** - A series of eight half-hour holiday specials which are lively tapestries, woven of storytelling, recollections, and music., 30 min., Adi Gevins, Producer, KPFA, 244 Thirtieth St., Oakland, CA 94611, 415-839-9374

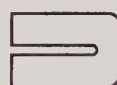
**From A Shorter Point of View** - News on the environment produced by and for children, 10 min., occasionally, Mario J. Guerrero, Producer/President, Kids' Productions, 2220 Huntsman Avenue & 2935 "E" St., Selma, CA 93662, 209-896-6500

**Strengthening Families** - Programming primarily concerned with issues related to people with developmental disabilities, 30 min., weekly, Jerry Weinstock, Producer/Host, Young Adult Institute, 460 West 34th St., New York, NY 10001, 212-563-7474

**The Parents' Journal** - Informative program for parents, grandparents and others who care for and about children. About childraising and family issues, 1 hr., weekly, Free, Bobbi Conner, Executive Producer, Livy Morris Productions, Inc., P.O. Box 6237, Cincinnati, OH 45229, 513-281-7750

### **Contemporary Issues**

**Alternative Radio** - Alternative and dissident progressive political viewpoints, in lecture format by some of the leading thinkers of our times, 1 hr., monthly, David Barsamian, Producer/Director, Alternative Radio, 1814 Spruce, Boulder, CO 80302, 303-444-8788



**Common Ground** - International affairs program about issues of global concern, 30 min., weekly, Free, Mary Gray, Producer, The Stanley Foundation, 216 Sycamore St., Suite 500, Muscatine, IA 52761, 319-264-1500

**Conserving America - The 1st Urban Conservation Corps** - Program about the San Francisco conservation corps, 30 min., occasionally, Claire Schoen, Producer/Partner, FineLine Productions, 1815 Grant St., Berkeley, CA 94703, 415-549-9107

**Consider the Alternatives** - The SANE/FREEZE organization sponsors this thought-provoking, well-researched documentary program about critical global issues, Beth Parke, Producer/Host, Consider the Alternatives, 5808 Greene St., Philadelphia, PA 19144, 215-848-4100

**Dear Abbie: A Celebration of the Words of Abbie Hoffman** - A series of four half-hour programs on one of America's greatest dissident organizers, Stuart Hutchinson, President/Producer, Ram's Horn Productions, P. O. Box 8101, Haledon, NJ 07538-0101, 201-694-5035

**Great Atlantic Radio Conspiracy** - Entertaining documentaries from an alternative, anarchistic, progressive viewpoint, 30 min., weekly, M. Lee Catt, Producer, Great Atlantic Radio Conspiracy, 2743 Maryland Avenue, Baltimore, MD 21218, 301-243-6987

**Minimum Wage: Maximum Controversy** - Documentary on the difficulty of living on minimum wage; opposition to raising the wage and why, Carlos Davidson, Independent Producer, Environmental Radio Project, P. O. Box 3692, Oakland, CA 94609, 415-654-1623

**Space Is the Place** - Looks at aspects of the "designed environment" - home technology for an aging society, housing issues, transportation issues, etc., 30 min., Harriet Baskas, Producer, Reel Women Productions, 6707 Twelfth Avenue, NW, Seattle, WA 98117, 206-784-3775

**Stratford Forum** - Former Senator George McGovern hosts forum on contemporary issues of global concern, 30 min., monthly, Free, Scott Harris, Producer, WPKN, Counterpoint Productions, 52 Comstock Hill Rd., Norwalk, CT 06850, 203-846-8324

**The Other Americas Radio** - About issues of global concern from U.S. foreign and domestic policy to social problems, documentaries about the environment, 30 min., weekly, Free via satellite, Eric Schwarz, Executive Producer, The Other Americas Radio, P.O. Box 85, Santa Barbara, CA 93102, 805-569-5381

## Environment

**A Journey to the South Pole** - A series of reports on the science, politics, and future of Antarctica, 1 hr., Free via satellite, David Baron, Science Reporter, WBUR-FM, 630 Commonwealth Avenue, Boston, MA 02215, 617-353-2790

**Earthcare** - Interviews with people worldwide working to heal the Earth, 30 min., weekly, Mary Pat Fisher, Executive Producer/Host, Sutton Valley Press, 657 Chaffeeville Rd., Storrs, CT 06268, 203-429-1707

**Habitat** - Daily modular series focusing on biological diversity and other environmental issues, 5 min. or less, daily, Carlos Davidson, Independent Producer, Environmental Radio Project, P. O. Box 3692, Oakland, CA 94609, 415-654-1623

**Living on Earth** - The people and politics of the environmental movement - national and international controversial ecological issues, 30 min., monthly, Free, Steve Curwood, Executive Producer, Janawest Productions, 151 Vassal Lane, Cambridge, MA 02138, 617-648-0661

**Poisoned Waters: Alaska Natives and the Oil Spill** - Program about the pollution disaster documenting the Alaskan oil spill, 5 min. or less, Susan Kernes, Executive Producer, True North Productions, Box 984, Homer, AK 99603, 907-235-5194

**Pollution Solutions** - A series of 1/2 hour programs exploring problems facing our environment and what people are doing to correct them, 30 min., weekly, Free via satellite, Eric Schwarz, Executive Producer, The Other Americas Radio, P.O. Box 85, Santa Barbara, CA 93102, 805-569-5381

## Health and Consumer Issues

**Consumer Headlines** - Consumer news and information 5 min. or less, occasionally, Free, Kathy Correia, Executive Producer, North American Network, 2316 Eighteenth St., NW, Washington, DC 20009, 202-265-3689

**Focus On Health** - News and information about issues affecting our health and the environment, including nuclear power, war and peace, AIDS, etc., 30 min., weekly, S. Michael DeRosa, Producer/Host, 152 Foster Drive, Willimantic, CT 06226, 203-486-4007

**Here's to Your Health** - Program about health issues, 30 min., monthly, Free, Deborah A. Lee, Independent Producer, AAPCHO, 517 Evelyn Avenue, Albany, CA 94706, 415-272-9536

**John Stossel's Consumer Report** - Explores consumer safety and cost-consumption issues, as well as the concept of "Buyer Beware", 5 min. or less, Pamela Perkins, Freelance Producer, 5 Vine St., #3, Biddeford, ME 04005, 207-283-4441

**Keeping Fit** - Health and exercise tips 5 min. or less, daily, Don Fass, Vice President of Programming, Continuum Broadcasting/MetroNews Radio, 208 East 51st St., Suite 1670, New York, NY 10022, 212-713-5165

## Human Interest - Oral History - Biography

**Blacks in Vermont** - Incorporates oral histories, interviews, folk and traditional music, and other elements to tell individuals' stories in a documentary fashion, Mark Greenberg, Producer, Up Street Productions / Woodsmoke Productions, 12 Guernsey Avenue, Montpelier, VT 05602, 802-229-4510

**Hidden Jews of New Mexico** - Investigation of descendants of secret Spanish Jews who have remained in hiding from persecution in the Southwest for 300 years, Free via satellite, Benjamin Shapiro, Freelance Producer, 611 Rathervue Place, Austin, TX 78705, 512-478-7722

**Hometown Texas: Parts I and II** - Essays on life in rural West Texas, 30 min., Ginger Miles, Freelance Producer, 12 John St., #11, New York, NY 10038, 212-233-0076

**King Stories** - A composite of provocative insights on public and private life of Martin Luther King, Jr., 1 hr., Dorothy Green, Producer, P. O. Box 21521, Washington, DC 20009, 202-332-6714

**Late Bloomer** - Inspirational tidbits about lives of active older people and the lives they lead, 5 min. or less, daily, Free, Connie Goldman, Producer/President, Connie Goldman Productions, 8888 Appian Way, Los Angeles, CA 90046, 213-656-6113

**Missouri Legacy** - Portraits of traditional artists and musicians living in Missouri, 5 min. or less, series of 13, Susan Newstead, Producer/General Manager, KOPN-FM, 915 East Broadway, Columbia, MO 65201, 314-874-5676

**Word of Mouth** - Storytelling, especially by and about people of the Black American South, 30 min., occasionally, George King, Independent Producer, George King and Associates, 372 Glenwood Avenue, S.E., Atlanta, GA 30307, 404-659-2422

#### Media - Journalism

**Right to Know** - Program covers a wide variety of media related issues. Programs include mini-documentaries followed by a panel discussion, 30 min., weekly, Allan Wolper, Producer/Host, Director of Journalism/Rutgers University, Hill Hall, Newark, NJ 07102, 201-648-5431

**Undercurrents by F.A.I.R.** - Explores blunders, blindness, bigotry, and bias in the media today, 30 min., weekly, Dennis Perrin, Producer/Host, Fairness and Accuracy in Reporting, 130 W. 25th St., New York, NY 10001, 212-633-6700

**World of Radio** - Program containing news for dx'ers; News from shortwave radio sources, 30 min., weekly, Glenn Hauser, Independent Producer, Box 1684, Box 1684, Enid, OK 74702, 405-237-3676

#### Miscellaneous

**Amex Business Talk** - Business information program produced by the American Stock Exchange, 15 min., weekly, Free, Tom Mariam, General Manager, American Stock Exchange—Radio Amex, 86 Trinity Place, New York, NY 10006, 212-306-1637

**Birdwatch** - 90-second daily feature on birds, with sounds from the Cornell Laboratory of Ornithology, 5 min. or less, daily, Free, Bob Kantor, Finger Lakes Productions, P. O. Box I, Ithaca, NY 14851, 607-273-0317

**DreamTalk Radio** - A half-hour call-in talk show about dreams and how to use them, 30 min., weekly, Naomi Epel, Producer/Host, DreamTalk Radio, 1176 Arch St., Berkeley, CA 94708

**Hispanic 100** - Examines the positive contributions and cooperation between Hispanics and corporate America, Free, Luis Vasquez-Ajmac, Vice President, Programming, North American Network, 2316 Eighteenth St., NW, Washington, DC 20009, 202-265-3689



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**The Gardening Journal** - Sponsored by the National Association of Gardening. Gives tips and information for the home gardener, 2 hrs., weekly, Ev Grimes, Freelance Producer, Quiet Rd. Audio Productions, P.O. Box 42, Grand Isle, VT 05458, 802-372-5386

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**Buscando La Belleza (In Search of Health and Beauty)** - Program with a feminist perspective for the Latina woman, 5 min. or less, daily, Free, Jeff Kline, General Manager, Hispanic Radio Network, 207 Montoya St., Santa Fe, NM 87501, 505-984-0080

PROGRAMS

**In Black America** - African-American news, documentaries, interviews, etc., 30 min., weekly, John L. Hanson, Jr., Executive Producer, The Longhorn Radio Network, Center For Telecommunication Services, Austin, TX 78712, 512-471-1631

**Linea Abierta** - Hispanic community issues and trends; program provides an historical context to the issues, 30 min., occasionally, Ricardo M. Valdez, Independent producer, Ricardo M. Valdez Consultant Firm, 9217 Prescott, Pico Rivera, CA 90660, 213-699-2646

**Rescatando el Futuro** - Documentary on Hispanic high-school drop-outs, Luis Vasquez-Ajmac, Vice-President of Programming, North American Network, 2316 18th St., NW, Washington, DC 20009, 202-265-3689

### News

**Ellington Today** - News and features produced by and especially for high school students, 2 hrs., daily, Lew Berry, Chair of the Department of Literary and the Media, The Duke Ellington School of the Arts, 3500 R St., NW, Washington, DC 20007, 202-337-3588

**Naming Names** - Coverage of current news items by, for, and about the gay and lesbian community, 5 min. or less, weekly, Free, Rosemarie Reed, Producer, Gay & Lesbian Alliance Against Defamation, Inc., 80 Varick St., #3E, New York, NY 10013, 212-966-1700

**National Native News** - Native American news - daily news service by, for, and about indigenous peoples. The only daily program covering Native issues, 5 min. or less, daily, Free via satellite & telephone, Gary Fife, Producer/Host, Alaska Public Radio Network - National Native News, 4640 Old Seward Highway, Suite 202, Anchorage, AK 99503, 907-563-7733

**Ohio News Reports** - Ohio government, state, and local news stories, 5 min. or less, daily, Free, Bill Cohen, Radio Manager, Ohio Public Radio/Public TV State News Bureau, OH Statehouse Bsmnt., Broad & High Sts., Columbus, OH 43215, 614-221-1811

**Pacifica News Service** - Alternative news service, 30 min., monthly, Bill Wax, Executive Producer, Pacifica Radio, 3426 16th St., NW, #205, Washington, DC 20010, 202-332-1039

**Radio Bilingue** - News and distribution service for, by, and about Latinos in the U.S., 5 min. or less, daily, Samuel Orozco, Executive Producer, Radio Bilingue, 1111 Fulton Mall, #700, Fresno, CA 93721, 209-486-5174; 800-284-2252

**This Way Out: the International Gay & Lesbian Radio Magazine** - Intentionally-distributed radio program carries summaries of selected news events, features, etc. for, by, and about lesbians and gays, 30 min., weekly, Free via satellite, Greg Gordon, Coordinating Producer, This Way Out: The Int'l Gay and Lesbian Radio Magazine, P. O. Box 38327, Los Angeles, CA 90038, 213-854-2616

**Wilderness News** - Environmental news program: legislative watch on environmental issues, 5 min. or less, Free via telephone, Kathy Kilmer, Assistant Public Affairs Director/Producer, The Wilderness Society, 1400 Eve St., NW, Washington, DC 20005, 202-842-8726

**WINGS and WINGS Omnibus** - A worldwide news and distribution service for, by, and about women of feminist perspectives, 30 min., weekly, Katherine Davenport, Co-Producer, Women's International News Gathering Service, P.O. Box 5307, Kansas City, MO 64131, 816-361-7161

### Philosophy - Spiritual - Ethics

**Bad Street Beat** - Young adults talk about themselves, their values, ethics, and self-esteem. Discussion of behavior and daily living habits, 1 hr., weekly, Charles G. Thomas, Executive Director, Bad St. U.S.A., Inc., P. O. Box 1063, Peck Slip Station, New York, NY 10272, 718-622-1795

**Call to Wisdom with Tara Singh** - Spiritual healing and self-help; relationships; the virtue of self-reliance, 30 min., Free, Barbara Dunlap, Producer, Call to Wisdom Radio, 902 South Burnside Avenue, Los Angeles, CA 90036, 1-800-367-2246

**Discovery** - Covers psychological, social, environmental, and spiritual topics including discussions about men's liberation, using an interview format, 30 min., weekly, Josh Wagner, Independent Producer, Cultural Media Services, Inc., 11750 Lake Blvd., Felton, CA 95018, 408-335-2787

**I'm Too Busy to Talk Now** - Inspirational conversations with creative people over 70; a radio series on aging and creativity, 30 min., weekly, Free, Connie Goldman, Producer/President, Connie Goldman Productions, 8888 Appian Way, Los Angeles, CA 90046, 213-656-6113

**New Dimensions** - Series celebrates life and the human spirit through the presentation of ideas to expand the mind and inspire the heart, 1 hr., weekly, Michael Toms, Executive Producer/Host, New Dimensions Radio, P. O. Box 410510, San Francisco, CA 94141, 907-468-5215

### Remaking the World: The Impact of

**Fundamentalism** - Examination of the ways religion influences cultural exchange and international politics, 30 min., occasionally, Claudia Hampston Daly, Executive Producer, William Benton Broadcast Project/U of Chicago, 5737 South University, Chicago, IL 60637, 312-702-0771

**Social Thought** - Non-ideological program concerned with the way institutions work as described by leading thinkers in over fifty fields, 30 min., weekly, Michael Phillips, Producer, 62 Stanton St., San Francisco, CA 94114, 415-929-7417

**Walden's Pond** - Animal rights, ecology, and spirituality are discussed in this unique program. Topics include vivisection, vegetarianism, animal experimentation, hunting, and more, weekly, Shelton Harrison Walden, Producer, WBAI-FM, 65 West 96th St., #24C, New York, NY 10025, 212-279-0707

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**Another Kind of Courage** - Oral histories of conscientious objectors describing their feelings about war and the draft, 1 hr., Free via cassette, Phil Andrus, Independent Producer, P.O. Box 261, Chimacum, WA 98325, 206-732-4085

**Assassination Journal** - The history of covert action and conspiracy including the assassination of JFK, etc., 30 min., George Michael Evica, Professor, English Department of Univ. of Hartford, English Department, University of Hartford, Bloomfield Avenue, West Hartford, CT 06117, 203-243-4538

**El Salvador: Terror and Hope (1990)** - Documentary about the history of U.S. foreign policy towards El Salvador and the struggle of groups inside the country, 30 min., occasionally, Free via satellite, Lucy J. Edwards, Independent Producer/Professor, American Radio Journal, Incarnate Word College, P. O. Box 10746, San Antonio, TX 78210-0746, 512-828-1261x323

**Focus on Central America** - A program to educate listeners about Central America issues and to promote peace and justice, 30 min., weekly, Free, Pam Burton, Producer, Office of the Americas, 8124 West Third St., #201, Los Angeles, CA 90048, 213-852-9808

**For the Record** - History of covert action, western intelligence agencies, and influence of U.S. foreign policy and thought, 15 min., daily, Dave Emory, Producer, Archives On Audio, P. O. Box 170023, San Francisco, CA 94117, 415-346-1840

**The Question of the Week** - Attempts to demystify the military. Explores issues such as spending, conversion, environmental impact, weapons systems, the U.N., etc., 5 min. or less, weekly, Free, Jim Bush, Producer, Assoc. Director, Center for Defense Information, 141 Halstead Avenue, Mamaroneck, NY 10543, 914-381-6204

**The Voice of Sandino and Dateline Nicaragua** - Programming specifically about Nicaragua and generally about entire Central America region from other than mainstream sources, 15 min., weekly, Ed Haase, Producer, Nica Radio, P. O. Box 8151, Kansas City, MO 64112, 816-842-2329

#### Women's Issues

**A Woman's Hormones in a Man's World** - Women's health issues, including discussion about birth control and childbirth, 30 min., occasionally, Free, Diana Korte, 564 Linden Park Court, Boulder, CO 80304, 303-449-5991

**Feminist Frequencies** - Programming about issues relevant to women from a feminist perspective, with music, etc. from women artists, 30 min., occasionally, Kathy Partridge, Freelance Producer, Feminist Frequencies, P. O. Box 351, Boulder, CO 80306, 303-443-7867

**Women and Minorities in the Sciences** - Documentaries about women scientists, their struggles and achievements, 30 min., monthly, Vicki Lofquist, Freelance Producer, KVOM, 2719 West 43rd St., Minneapolis, MN 55410, 612-625-3500



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**GEN Docket No. 87-839**

In the Matter of Revision of Part 15 of the Rules regarding the operation of radio frequency devices without an individual license - LPB *et al.*

**Joint Petition for Partial Reconsideration  
Memorandum, Opinion, and Order**

Adopted: November 26, 1990; Released: December 28, 1990

By the Commission:

**Introduction**

1. By this action, the Commission grants in part the Joint Petition for Partial Reconsideration filed by LPB, Inc., LocRad Inc., Burden Associates and the Intercollegiate Broadcasting System, Inc., (herein "joint petitioners") requesting partial reconsideration of the *First Report and Order (R&O)* in this proceeding.<sup>1</sup> The rule changes adopted herein will relax the radio frequency (RF) field strength emission limits for low power AM communications systems, *e.g.* carrier current and "leaky cable" radio systems operating on the AM radio band. The revised limits for these systems will be the same as those specified in Section 15.7 of the rules that were in place prior to the *R&O*. We believe these limits are adequate to ensure that such equipment does not pose a significant threat of interference to authorized communications users.

**Background**

2. In the *R&O*, the Commission adopted a comprehensive revision of Part 15 of the rules. These rules govern radio frequency devices that may be operated without an individual license. The objective of this revision was to encourage more effective use of the radio frequency spectrum by providing additional technical and operational flexibility in the design, manufacture and use of non-licensed devices. In addition, the Commission attempted to establish uniformity among the technical standards for various non-licensed operations while retaining, to the greatest extent possible, operations currently permitted under the rules. As part of this effort, the Commission revised the field strength limits that apply to three types of low power communications systems that operate on frequencies in the AM band:

(a) *Carrier current systems*: A carrier current system transmits radio frequency energy by conduction over the electric power lines. This type of system can be designed such that the signals are received by conduction from direct connection to the electric power lines (unintentional radiator) or the signals are received over-the-air due to radiation of the radio frequency signals from the electric power lines (intentional radiator). In the *R&O* the Commission applied new, somewhat more stringent, field strength limits to carrier current systems.<sup>2</sup>

(b) *Leaky cable systems*: Leaky cable systems are in-

tentional radiators employing a coaxial cable that leaks radio frequency energy. This cable is connected to a transmitter and routed through an area for the express purpose of radiating a signal. The signal is usually received on an auto radio and is typically used to provide information at amusement parks and along roadways. The new field strength limits, which also apply to carrier current systems, are similar to the former limits for leaky cable systems.<sup>3</sup>

(c) *Campus radio stations*: In the *R&O*, the Commission adopted special operating provisions for radio stations operating in the AM broadcast band (525 to 1705 kHz) on the campus of a college or other educational institution. These provisions permit campus stations to operate with unlimited field strength emissions within the campus, so long as the field strength of the signal complies with emission limits at the campus boundary. In addition, campus radio systems were permitted to use any kind of antenna and were exempted from using certificated transmitters.<sup>4</sup>

**Joint Petition**

3. The joint petitioners market and operate low power communications systems that operate in the AM broadcast band. Typical systems include motorist advisory radio stations, aids for the hearing-impaired, drive-in churches and campus radio stations. The joint petitioners argue that, because carrier-current systems rely on reception of the induction field, the new field strength limits, while identical to the old limits for carrier current systems for frequencies at the top end of the AM band, are substantially reduced for frequencies at the bottom of the band. The joint petitioners state that since almost all carrier current systems operate on the lower AM broadcast frequencies, this change in the rules severely restricts the use of frequencies that operators find most acceptable and makes it significantly more difficult for carrier current systems to be established. The joint petitioners claim that their systems have operated in the AM broadcast band for decades without causing any interference to the AM broadcast service. They further claim that the record does not show any need to tighten the Part 15 technical standards.

4. The joint petitioners further state that, since leaky cable systems also operate on the lower AM frequencies and are designed to operate using the induction field, they should be subject to the same emission limits as carrier current systems. The joint petitioners are under the impression that both carrier current systems and intentional radiators employing leaky coaxial cables as antennas were previously subject to Section 15.7 of the Commission's rules.<sup>5</sup> They claim that measurements indicate that it is the induction field which predominates along the length of a properly terminated leaky cable. They state that both theory and measured data indicate that leaky cable and carrier current systems behave similarly. They therefore conclude that the Commission should treat leaky cable systems the same as carrier current systems.

5. The joint petitioners are concerned that, while the

new campus radio provisions in Section 15.221 contain no field strength limitations for operations within the boundary of a campus, the new field strength limits that would apply at the campus boundary would severely restrict carrier current usage at urban educational institutions. The point out that it is these urban institutions that are particularly in need of the ability to conduct carrier current operations, since educational FM frequencies are no longer available in many cities. The joint petitioners state that many large institutions house a significant percentage of the student body adjacent to the campus in large privately-owned residence halls, which are one hundred percent student-occupied. They are concerned that the campus radio provisions would not apply to such buildings and the signal levels of the campus station would be too low to be usable.

6. To address these concerns, the joint petitioners request that all low power communications devices, including both intentional and unintentional radiators, operating in the range of 525 kHz to 1705 kHz be regulated by a single rule duplicating the former Section 15.7.

7. Thirty seven parties submitted comments in response to the joint petition. In general, all the commenters supported the joint petition and restated the arguments presented by the joint petitioners. No negative comments to the joint petition were filed. A list of those filing comments is contained in Appendix A.

#### DISCUSSION

8. We recognize that carrier current and leaky cable systems are used to provide valuable services that often cannot easily be provided through other means. These systems allow low power, one-way communications using standard AM radio receivers. Campus radio stations have operated successfully for years using carrier current systems, and motorist advisory stations, such as those serving amusement parks, are now using leaky cable systems.

9. In the *R&O*, the Commission specified uniform field strength limits for both carrier current systems and other types of low power communications devices in order to simplify the Part 15 rules. The new limits are somewhat more stringent for the lower frequencies of the AM band than the former limits. They have the effect of significantly impeding the usability of carrier current systems. As indicated above, however, the Commission did not intend to preclude existing Part 15 operations and, in fact, considered carrier current operations in specifying the field strength limits for the 490 - 1705 MHz (sic) band.

10. Carrier current and leaky cable systems operate on a different physical principle than other wireless radio frequency communication systems. Such systems rely on the induction (or magnetic) field, which is present only in the immediate vicinity of a transmission line or cable carrying RF energy, to provide communications to receivers. As the petitioners observe, induction fields rapidly decrease in strength as distance from the transmission line is increased. Radiation fields, which are

more typically used for radio communications, decrease much more slowly. Although induction fields are stronger than radiation fields at locations very near carrier current and leaky cable systems, radiation fields are stronger, and therefore more likely to cause interference, at greater distances.

11. Under our previous rules, carrier current systems were measured approximately at the distance at which the radiation field begins to exceed the induction field.<sup>6</sup> Under the new field strength limits, measurements of carrier current systems operating on the lower frequencies of the AM band were required to be made at substantially shorter distances: *i.e.*, distances where the induction field is stronger than the radiation field. While we did increase the field strength limits to compensate for the shorter measurement distance, we apparently did not sufficiently allow for the higher field strength of the induction field in areas very near to carrier current systems. The new field strength limits adopted in the *R&O*, therefore, significantly restrict the use of new carrier current systems. However, carrier current systems have been operated for decades under the former field strength limits without causing interference problems for AM broadcasters. Those levels were sufficient to avoid interference in the past and we believe they remain appropriate for future use. Accordingly, we are allowing carrier current systems operating in the AM band to comply with either the new limits or those which were contained in the former rules, respectively in the International Systems of Units.<sup>7</sup> While this change will lessen the uniformity of Part 15 emissions standards, we believe the benefits of applying for former standards in this case outweigh the advantages of uniformity.

12. We previously treated leaky cable systems in a manner similar to typical radio transmitters because, like radio transmitters, leaky cable systems could control where their antennas (leaky cables) were placed. However, because leaky cable systems operate more like carrier current systems, relying primarily on the induction field, we are granting the request to subject leaky cable systems operating in the AM band to the same field strength limits and equipment authorization requirements as carrier current systems.

13. The above rule changes will also resolve the difficulties that campus radio stations operating on lower band AM frequencies face in providing service beyond the boundaries of the institution under the new rules. In general, the rules adopted in the *R&O* were intended to permit campus radio stations greater flexibility and freedom in designing their operations. Consistent with this intent, campus radio stations will now be able to use both carrier current and leaky cable systems at the signal levels specified for carrier current systems under the previous rules to serve off-campus locations such as privately-owned residence halls.

#### ORDERING CLAUSES

14. In accordance with the above discussion and pursuant to the authority contained in Sections 4(i), 301, 302, 303, 304, and 307 of the Communications Act of



1934, as amended, IT IS ORDERED that the Joint Petition filed by LPB Inc., LocRad Inc., Burden Associates, and the Intercollegiate Broadcasting System, Inc., IS GRANTED to the extent indicated herein. In addition, IT IS FURTHER ORDERED that Part 15 of the Commission's Rules and Regulations IS AMENDED as set forth in Appendix B below. These rules and regulations are effective February 14, 1991.

FEDERAL COMMUNICATIONS COMMISSION

Donna R. Searcy  
Secretary

#### APPENDIX A

COMMENTS ON LPB, INC. ET AL. JOINT PETITION FOR PARTIAL RECONSIDERATION WERE FILED BY:

Belmont Abbey College  
David W. Borst  
Broadcast Services for the Blind  
Chabot College  
Connecticut Radio Information Service  
Joseph D. Coons  
DeAnza Land and Leisure Corporation  
In-Sight Radio  
Ithaca College  
Kent State University  
Kep's Radio & TV  
KXLU  
Lancaster County Association for the Blind  
Richard Mertz  
Miami University  
Mid Atlantic Radio Service  
Midwest Radio Associates, Ltd.  
New York University  
Niagara University Telecommunications Center  
Ohio Radio Reading Services  
Panasonic  
Performance Materials Corporation  
Radio Information Service  
Radio Information Service for Blind and Handicapped  
Six Flags Great Adventure  
State of Connecticut Office of Consumer Counsel  
The Metropolitan Washington Ear, Inc.  
The Sight Center  
The University of Kansas  
Thirty-Eighth Church of Christ. Scientist  
Transcom  
WBCX  
WGMU  
WHCS  
WRGW  
WSAM

LATE COMMENTS ON LPB, INC. ET AL. JOINT PETITION FOR PARTIAL RECONSIDERATION WERE FILED BY;

The George Washington University (WRTV)

#### APPENDIX B

CHANGES TO THE REGULATIONS

Title 47 of the Code of Federal Regulations, Part 15, is amended as follows:

1. The authority citation for Part 15 continues to read as follows:

Authority: Sec. 4, 302, 303, 304 and 307 of the Communications Act of 1934, as amended, 47 U.S.C. Sections 154, 302, 303, 304 and 307.

2. Section 15.109 is amended by revising paragraph (c) to read as follows:

Section 15.109 Radiated emission limits.

\*\*\*

Carrier current systems used as unintentional radiators or other unintentional radiators that are designed to conduct their radio frequency emissions via connecting wires or cables and that operate in the frequency range of 9 kHz to 30 Mhz, including devices that deliver the radio frequency energy to transducers, such as ultrasonic devices not covered under Part 18 of this Chapter, shall comply with the radiated emission limits for intentional radiators provided in Section 15.209 for the frequency range of 9 kHz to 30 MHz. As an alternative, carrier current systems used as unintentional radiators and operating in the frequency range of 525 kHz to 1705 kHz may comply with the radiated emission limits provided in Section 15.221(a). At frequencies above 30 MHz, the provisions of paragraph (a) of this Section apply.

\*\*\*\*\*

3. Section 15.207 is amended by revising paragraph (b) to read as follows:

Section 15.207 Conducted limits.

\*\*\*\*\*

(b) The limit in paragraph (a) shall not apply to intentional radiators operated as carrier current systems in the frequency range of 450 kHz to 30 MHz. Such systems are subject to radiated emission limits as provided in Section 15.205 and Section 15.209, 15.221, 15.223, 15.225 or 15.227, as appropriate.

\*\*\*\*\*

4. Section 15.221 is revised to read as follows:  
Section 15.221 Operation in the band 525 - 1705 kHz.

(a) Carrier current systems and transmitters employing a leaky coaxial cable as the radiating antenna may operate in the band 525-1705 kHz provided the field strength levels of the radiated emissions do not exceed 15  $\mu\text{V}/\text{m}$ , as measured at a distance of  $47,715/\text{frequency in kHz}$  meters (equivalent to  $\text{Lambda}/2\text{Pi}$ ) from the electric power line or the coaxial cable, respectively. The field strength levels of emissions outside this band shall not exceed the general radiated emission limits in Section 15.209.

(b) As an alternative to the provisions in paragraph (a), intentional radiators used for the operation of an AM broadcast station on a college or university campus or on the campus of any other education institution may comply with the following:

(1) On the campus, the field strength of emission appearing outside of this frequency band shall not exceed the general radiated emission limits shown in Section 15.209 as measured from the radiating source. There is no limit on the field strength of emissions appearing within this frequency band, except that the provisions of Section

15.5 continue to comply.

(2) At the perimeter of the campus, the field strength of any emissions, including those within the frequency band 525 - 1705 kHz, shall not exceed the general radiated emissions in Section 15.209.

(3) The conducted limits specified in Section 15.207 apply to the radio frequency voltage on the public utility power lines outside of the campus. Due to the large number of radio frequency devices which may be used on the campus, contributing to the conducted emissions, as an alternative to measuring conducted emissions outside of the campus, it is acceptable to demonstrate compliance with this provision by measuring each individual intentional radiator employed in the system at the point where it connects to the AC power lines.

(c) A grant of equipment authorization is not required for intentional radiators operated under the provisions of this Section. In lieu thereof, the intentional radiator shall be verified for compliance with the regulations in accordance with Subpart J of Part 2 of this Chapter. This data shall be kept on file at the location of the studio, office or control room associated with the transmitting equipment. In some cases, this may correspond to the location of the transmitting equipment.

(d) For the band 535-1705 kHz, the frequency of operation shall be chosen such that operation is not within the protected field strength contours of licensed AM stations.

#### FOOTNOTES

<sup>1</sup> See *First Report and Order*, GEN Docket No. 87-389, adopted March 30, 1989, 4 FCC Rcd 3493 (1989). Unless otherwise stated, all references to Part 15 regulations are to the rules adopted herein.

<sup>2</sup> Under the previous rules, the field strength of carrier current stations was specified in Section 15.7. See 47 CFR Section 15.7 (1988 edition). In the *R&O*, the Commission applied new limits in Sections 15.209(e) and 15.209. See 47 CFR Sections 15.109(e) and 15.209.

<sup>3</sup> Under the previous rules, the Commission treated leaky cable systems as low power communications devices subject to Section 15.111. See CFR Section 15.111 (1988 edition). Under the new rules, they are regulated by Section 15.209. The specified maximum permitted field strength levels are the same in both the existing and previous rules. However, the Commission did, in the *R&O*, change the rules to require that signal strength measurements be made using a CISPR quasi-peak detector instead of an average detector as previously required. This measurement change resulted in a 3 to 6 dB reduction in the actual field strength limit. This change is not questioned by the petitioners.

<sup>4</sup> See 47 CFR Section 15.221.

<sup>5</sup> In fact, this is not the case. Leaky cable systems were subject to the former provisions of Section 15.111 of the Rules. As stated in OST Bulletin No. 63, a commu-

nication system where a wire is routed through an area and connected to a transmitter for the express purpose of radiating a signal into space is considered to be a low power communication device. See OST Bulletin No. 63, "Understanding FCC Rules & Regulations under Part 15 for Low Power Transmitters." December 1984.

<sup>6</sup> This distance is approximated by dividing the wavelength of the signal by two times the constant Pi (commonly referred to as  $\Lambda/2\pi$ ). The distance varies with the frequency. A signal on 540 kHz has a  $\Lambda/2\pi$  distance of 88 meters. A signal on 1590 kHz has a  $\Lambda/2\pi$  distance of 30 meters.

<sup>7</sup> We note that the former rules allowed the field strength of low power AM communications systems to be measured using an average detector while the rules adopted in the *R&O* required the use of a CISPR quasi-peak detector. This measurement change may result in a 3 to 6 dB reduction in the actual field strength limit. CISPR quasi-peak measurement provide a much better indication of the potential for interference to AM broadcast stations. Accordingly, we are retaining the requirement to use a CISPR quasi-peak detector. We believe the relaxation of the field strength limits which we are adopting will provide adequate relief so that carrier current and leaky cable systems can continue to operate successfully. ☐

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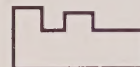
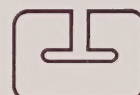
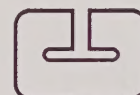
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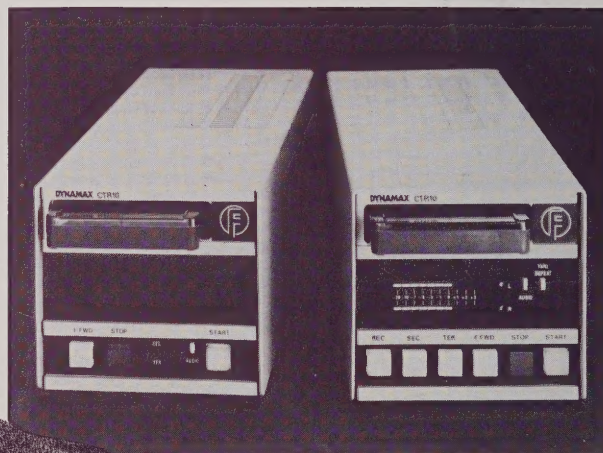
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